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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'SSL\_client\_version.3ossl'***

***\$ man SSL\_client\_version.3ossl***

SSL\_GET\_VERSION(3ossl)      OpenSSL      SSL\_GET\_VERSION(3ossl)

#### NAME

SSL\_client\_version, SSL\_get\_version, SSL\_is\_dtls, SSL\_version - get the protocol information of a connection

#### SYNOPSIS

```
#include <openssl/ssl.h>
```

```
int SSL_client_version(const SSL *s);
```

```
const char *SSL_get_version(const SSL *ssl);
```

```
int SSL_is_dtls(const SSL *ssl);
```

```
int SSL_version(const SSL *s);
```

#### DESCRIPTION

SSL\_client\_version() returns the numeric protocol version advertised by the client in the legacy\_version field of the ClientHello when initiating the connection. Note that, for TLS, this value will never indicate a version greater than TLSv1.2 even if TLSv1.3 is subsequently negotiated. SSL\_get\_version() returns the name of the protocol used for the connection. SSL\_version() returns the numeric protocol version used for the connection. They should only be called after the initial handshake has been completed. Prior to that the results returned from these functions may be unreliable.

SSL\_is\_dtls() returns one if the connection is using DTLS, zero if not.

## RETURN VALUES

SSL\_get\_version() returns one of the following strings:

### SSLv3

The connection uses the SSLv3 protocol.

### TLSv1

The connection uses the TLSv1.0 protocol.

### TLSv1.1

The connection uses the TLSv1.1 protocol.

### TLSv1.2

The connection uses the TLSv1.2 protocol.

### TLSv1.3

The connection uses the TLSv1.3 protocol.

### unknown

This indicates an unknown protocol version.

SSL\_version() and SSL\_client\_version() return an integer which could include any of the following:

#### SSL3\_VERSION

The connection uses the SSLv3 protocol.

#### TLS1\_VERSION

The connection uses the TLSv1.0 protocol.

#### TLS1\_1\_VERSION

The connection uses the TLSv1.1 protocol.

#### TLS1\_2\_VERSION

The connection uses the TLSv1.2 protocol.

#### TLS1\_3\_VERSION

The connection uses the TLSv1.3 protocol (never returned for SSL\_client\_version()).

#### SEE ALSO

ssl(7)

#### HISTORY

The SSL\_is\_dtls() function was added in OpenSSL 1.1.0.

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